

Title (en)

ELECTRONIC DEVICE INCLUDING HIGH-FREQUENCY TRANSMISSION CIRCUIT

Title (de)

ELEKTRONISCHE VORRICHTUNG MIT HOCHFREQUENZÜBERTRAGUNGSSCHALTUNG

Title (fr)

DISPOSITIF ÉLECTRONIQUE COMPRENANT UN CIRCUIT DE TRANSMISSION HAUTE FRÉQUENCE

Publication

EP 3455904 A1 20190320 (EN)

Application

EP 17813538 A 20170612

Priority

- KR 20160073355 A 20160613
- KR 2017006070 W 20170612

Abstract (en)

[origin: US2017358847A1] An electronic device including a housing; a printed circuit board (PCB) in the housing, wherein the PCB includes a plurality of layers with one or more conductive and insulation layers; a first electrical component formed as at least a part of or in the housing; a second electrical component above or near the PCB in the housing, wherein the first and second electrical components are separated; and at least one electrical path extending from the first electrical component to the second electrical component, wherein at least a portion of the electrical path runs on or inside the PCB, wherein the PCB includes a region including a pattern of conductive vias, wherein each of the vias extends through at least part of the plurality of layers to contact at least one of the one or more conductive layers, and wherein the electrical path runs through the region without contacting the vias.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 13/08** (2006.01); **H04M 1/02** (2006.01)

CPC (source: EP KR US)

H01Q 1/243 (2013.01 - EP KR US); **H01Q 1/38** (2013.01 - KR US); **H01Q 5/35** (2015.01 - EP US); **H01Q 21/28** (2013.01 - EP US); **H01R 12/79** (2013.01 - US); **H01R 13/6691** (2013.01 - US); **H04M 1/026** (2013.01 - KR); **H05K 1/0218** (2013.01 - US); **H05K 1/0219** (2013.01 - EP); **H05K 1/0243** (2013.01 - US); **H05K 1/028** (2013.01 - US); **H05K 1/09** (2013.01 - KR); **H05K 1/115** (2013.01 - EP KR US); **H05K 1/142** (2013.01 - EP US); **H05K 1/148** (2013.01 - EP US); **H05K 1/18** (2013.01 - US); **H05K 3/34** (2013.01 - KR); **H05K 7/1427** (2013.01 - US); **H05K 2201/09236** (2013.01 - EP); **H05K 2201/09609** (2013.01 - EP US); **H05K 2201/09618** (2013.01 - EP); **H05K 2201/09727** (2013.01 - EP); **H05K 2201/0999** (2013.01 - EP US); **H05K 2201/10098** (2013.01 - EP KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 10727568 B2 20200728; **US 2017358847 A1 20171214**; AU 2017283939 A1 20181213; AU 2017283939 B2 20210805; EP 3455904 A1 20190320; EP 3455904 A4 20200304; KR 102553177 B1 20230710; KR 20170140691 A 20171221; KR 20230110222 A 20230721; US 10978789 B2 20210413; US 11569565 B2 20230131; US 11749880 B2 20230905; US 2020358166 A1 20201112; US 2021226320 A1 20210722; US 2023134315 A1 20230504; US 2023411832 A1 20231221; WO 2017217714 A1 20171221

DOCDB simple family (application)

US 201715621687 A 20170613; AU 2017283939 A 20170612; EP 17813538 A 20170612; KR 20160073355 A 20160613; KR 2017006070 W 20170612; KR 20230086423 A 20230704; US 202016939708 A 20200727; US 202117225509 A 20210408; US 202218090214 A 20221228; US 202318459597 A 20230901